



U.S. PATENT AND TRADEMARK OFFICE

PATENT  
Docket No. 220002062900

**CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D C 20231, on December 17, 2001.

*Aliza Ramirez-Foat*  
Aliza Ramirez-Foat

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the application of:

Dennis A. CARSON et al.

Serial No.: 09/847,102

Filing Date: May 1, 2001

For: IMMUNOLOGIC COMPOSITIONS  
AND METHODS FOR STUDYING  
AND TREATING CANCERS  
EXPRESSING FRIZZLED ANTIGENS

Examiner: To be Assigned

Group Art Unit: 1646

**PRELIMINARY AMENDMENT**

Box Missing Parts  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

This is in response to the Notice to file missing parts of nonprovisional application dated July 18, 2001, for which a response was due September 18, 2001. Accordingly, a petition for extension of time and required fee are enclosed.

Please enter the following Sequence Listing, amendments and remarks.

In the Sequence Listing:

Please enter the paper copy of the Sequence Listing as new pages 1- 70 in the above-captioned patent application. A computer-readable copy (CRF copy) of the Sequence Listing accompanies this response.

**AMENDMENTS**

**In the Specification:**

Please replace the paragraph beginning at page 6, line 10, with the following rewritten paragraph:

--Figures 2A- 2D depict the alignment of various deduced amino acid sequences of frizzled receptors (SEQ ID NOS: 35-43) derived using the Clustal W program on DeCypher. "CY" refers to the cysteine rich domain. "TM" refers to the transmembrane domain. Accordingly, the regions in-between the CRD and TM domains represent the extracellular regions.--

Please replace the paragraph beginning at page 6, line 14, with the following rewritten paragraph:

--Figure 3 depicts the sequence alignment of a portion of the first extracellular region of human frizzled receptors (SEQ ID NOS:129-138).--

Please replace the paragraph beginning at page 6, line 23, with the following rewritten paragraph:

--Figures 8A - 8I depict the sequence alignment of the deduced amino acid sequences of human (HFZ) and mouse (MFZ) frizzled receptors 1 to 10, assigned SEQ. ID NOS: 44 to 60 in the order shown. Also depicted therein are the amino terminal domains (assigned SEQ. ID NOS: 61 to 77 in the order shown), the extracellular domain loop 1 (assigned SEQ. ID NOS: 78 to 94 in the order shown), the extracellular domain loop 2 (assigned SEQ. ID NOS: 95 to 111 in the order shown), and the extracellular domain loop 3 (assigned SEQ. ID NOS: 112 to 128 in the order shown).--

**REMARKS**

The Specification has been amended to include sequence identification numbers which were omitted at the time of filing. The description for Figures 2 and 8 has been amended to be in accordance with the formal drawings submitted herewith.

Attached hereto is a marked-up version of the changes made to the specification by the current amendment. The attached page is captioned "**Version with markings to show changes made.**".

The undersigned hereby states that the computer readable form copy (CRF copy) of the Sequence Listing and the paper copy of the Sequence Listing, submitted in accordance with 37 C.F.R. § 1.825(a) and (b), respectively, are the same and contain no new matter. Accordingly, entry of the Sequence Listing into the above-captioned case is respectfully requested.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing docket no. 220002062900. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,

Dated: December 17, 2001

By: Brenda J. Wallach  
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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**In the Specification:**

On page 6, line 10, delete "Figure 2" and insert --Figures 2A - 2D--;

On page 6, line 11, after "receptors" insert (SEQ ID NOS:35-43)--;

On page 6, line 15, after "receptors" insert (SEQ ID NOS:129-138)--;

On page 6, line 23, delete "Figure 8" and insert --Figures 8A - 8I--.



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Examiner: Unassigned

Group Art Unit: 1646

SUBMISSION OF FORMAL DRAWINGS

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Enclosed are 16 sheet(s) of formal drawings in connection with the above-identified application.

Respectfully submitted,

Dated: December 17, 2001

By:

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